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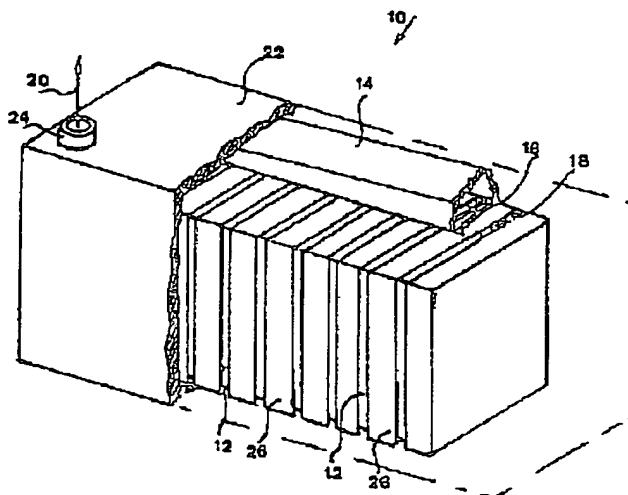
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APPLICANT : ELECTRIC FUEL EFL LTD;

INVENTOR : SERGEI KINBERG;

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TITLE : ELECTROCHEMICAL ZINC-AIR
MULTIPLE CELL BATTERY



ABSTRACT : PROBLEM TO BE SOLVED: To take out a large quantity of heat, and enhance reliability by arranging a means which has a pair of separate thin plates and adjusts the flow of the cooling air between adjacent battery cells whose main surfaces are oppositely arranged in parallel to each other, and cooling the reaction air contacting the outside surface by flowing the cooling air inside it.

SOLUTION: An air electrode is arranged in a cell housing by sandwiching a porous particle zinc electrode, and electrolyte is filled, and a battery cell is constituted. These battery cells 26 are arranged in large numbers in parallel to each other, and are housed in a battery case 22, and a zinc-air multiple cell battery 10 is obtained. A means 12 which is composed of a pair of separate thin plates and adjusts the flow of the cooling air, is arranged along the whole area of a main surface between the adjacent battery cells 26. These thin plates are preferably plastic or copper or the like. The reaction air is supplied between the outside of these thin plates and the air electrode through a gas washer, and the cooling air is made to flow to an air passage between the thin plates through a manifold duct 14, and the reaction air is cooled.

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